GRUNDIG

320GB / 500GB freesat+ HD
Digital TV Recorder

freesat+
HD digital TV recorder

Instruction Manual

Welcome

Thank you for choosing this Grundig HD Digital TV Recorder.
Not only can it receive over 140 subscription free channels, but you can record two channels at a time, pause and rewind live TV and watch it back at a time to suit you.

It's really simple to use; it's all done using the clear, easy to understand on screen menus which are operated from the remote control. It even has a reminder function so that you won't miss your favourite programmes.

freesat+
HD digital TV recorder

For a one off payment, you can buy a digital box, satellite dish and installation giving you over 140 channels covering the best of TV and more.

Certification mark
digital
Approved product

A digital box lets you access digital channels that are broadcast in the UK. It uses a digital signal, received through your satellite dish and lets you watch it through your existing television.

DOLBY DIGITAL PLUS

This product is capable of receiving and decoding Dolby Digital Plus.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

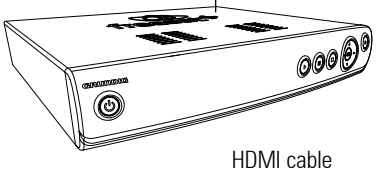
This product has a HDMI connector so that you can watch high definition TV via a HDMI lead when connected to a HD Ready TV.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

The illustrations and screen shots shown in this instruction manual are for reference and instruction purposes only, and may not exactly match the product.

What's in the box?

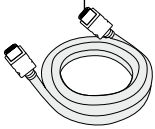
Your new HD Digital TV Recorder



Remote control

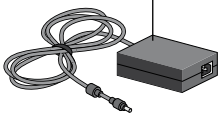
2 x AAA batteries

HDMI cable

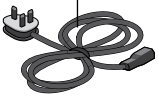


Quick start guide

Mains Adapter



Power Cable



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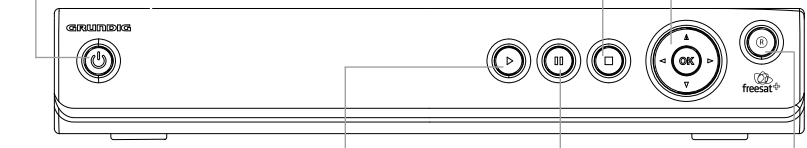
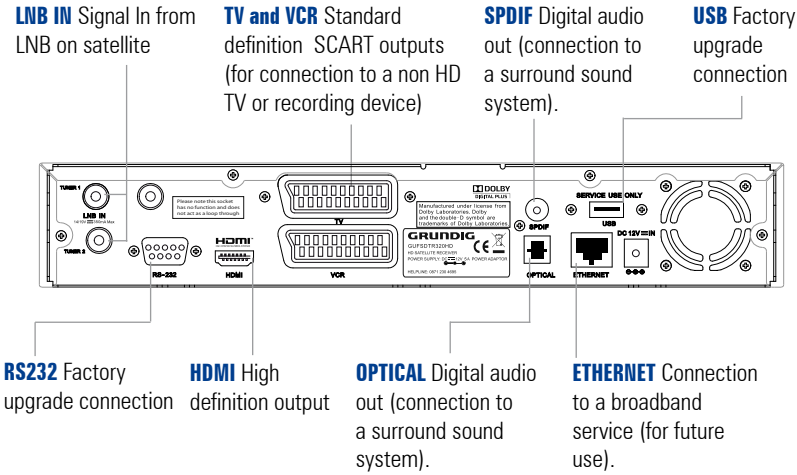
Front view

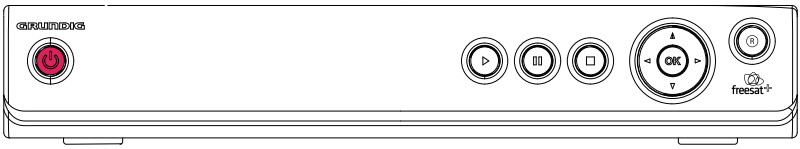

STANDBY Power On / Standby.
STOP Stop recordings and playback.
NAVIGATION Move up, down, left, right and OK.
PLAY Playback recorded programmes.
PAUSE Pause live TV and playback.
R Record live TV.

Rear view

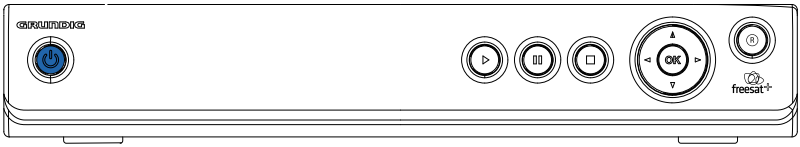

LNB IN Signal In from LNB on satellite
TV and VCR Standard definition SCART outputs (for connection to a non HD TV or recording device)
SPDIF Digital audio out (connection to a surround sound system).
USB Factory upgrade connection
RS232 Factory upgrade connection
HDMI High definition output
OPTICAL Digital audio out (connection to a surround sound system).
ETHERNET Connection to a broadband service (for future use).

Standby Mode

Standby Mode - Power button is red when in standby mode.

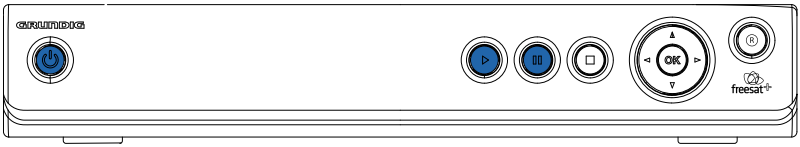


On Mode - Power button is blue when powered on.

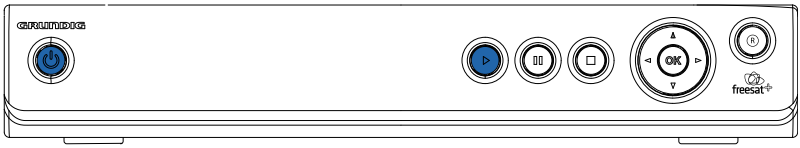


Playback Mode (Watching a Recorded Programme)

Pause Mode - Play and Pause button will be lit.

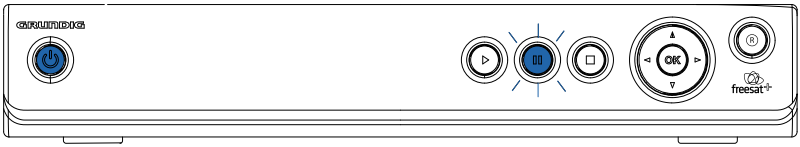


Playback Mode - Play button will be lit.

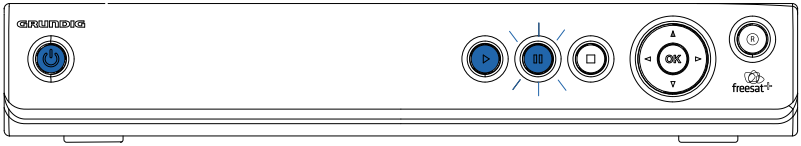


Time shift Mode (Pausing Live TV)

Pause Mode - Pause button will flash continuously.

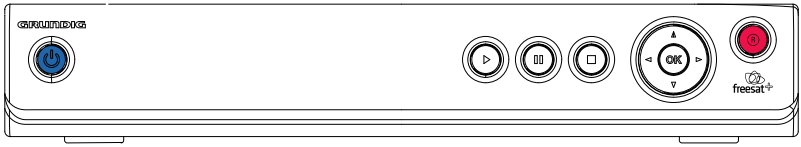


Playback Mode - Play button will be lit and the Pause button will flash continuously.



Recording Mode

Recording Mode - Record button will be lit.



HOME Exits all menus and goes back to live TV.

MUTE Turns the volume On and Off.

WIDE Adjust the aspect ratio of the video output.

SWAP Return to the previous selected channel.

FAST REWIND Navigate left in the top menu bar and fast rewind.

STOP

OK Confirm selection in menu/on screen displays.

BACK Takes you back to the previous menu.

MENU Opens the main menu.

LIB Opens the library screen where your recordings are stored.

COLOUR BUTTONS For interactive use and navigating menus.

VOL + Volume up.

AD Turns audio description On or Off.

VOL - Volume down.

AUDIO Opens the audio menu.

STANDBY Power On/Standby.

CH LIST Opens the channel list menu.

TV/DTV Switches between freesat and normal TV. (Scart connection only).

NUMBER PAD Enter values and select the channel number directly by entering it's number.

INFO Display the Info bar.

FAST FORWARD Navigate right in the top menu bar and fast forward.

PLAY / PAUSE

NAVIGATION Move up/down/left/right in menus/on screen displays (left and right arrows are used to skip forwards and backwards).

RECORD Used to record a programme and schedule recordings.

GUIDE Opens the genre list and the guide.

EXIT Closes menu.

P + Channel up.

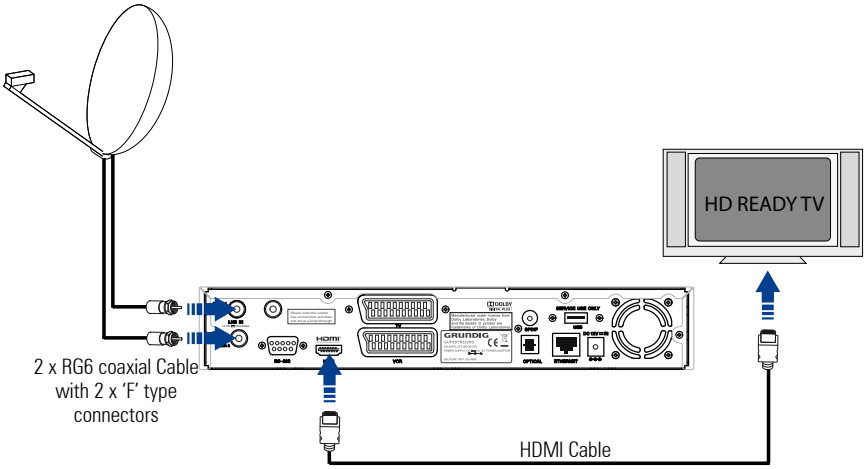
SUB Turns the subtitles On and Off.

P - Channel up.

TEXT Displays digital text when available.

Getting connected

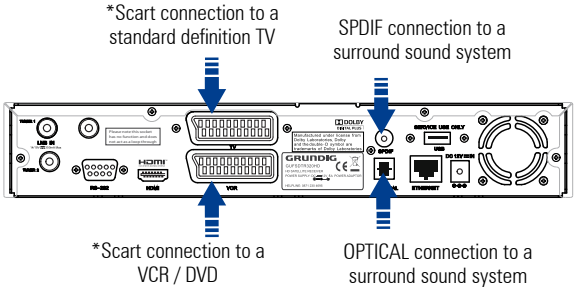
Connecting to a HD Ready TV



Connect two RG6 co-axial cables fitted with 'F' type connectors from your satellite dish to the 'TUNER1' and 'TUNER2' sockets on the back panel of your Digital TV Recorder.

Connect the HDMI cable that came with your Digital TV Recorder between the 'HDMI' socket on the back panel of your Digital TV Recorder and a HDMI socket on your TV.

Other connections


*Scart connection to a standard definition TV
SPDIF connection to a surround sound system
*Scart connection to a VCR / DVD
OPTICAL connection to a surround sound system

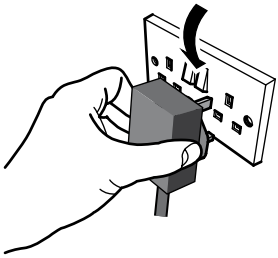
* It is not possible to view programmes in high definition when using a scart connection.

1 Put batteries in the remote control

Open the battery cover of the remote control and put two AAA size batteries so that the '+' and '-' marks on the batteries match the '+' and '-' marks inside the remote control. Replace the battery cover.

2 Plug in and switch on

Insert the mains lead into the '12V DC IN' on the back of the Digital TV Recorder and connect the other end into a mains socket. The red standby light on the front of the Digital TV Recorder will come on.



Switch your TV On and select HDMI.

Press the standby button on your remote control.

3 The first time install screen

The first time installation screen will appear on screen.

If the signal strength is above 50% press the **[OK]** button on your remote control to continue the setup.

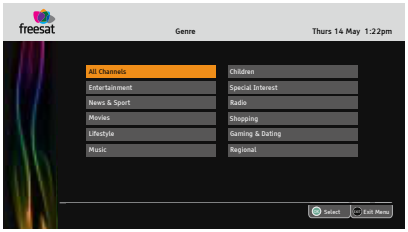
Follow the instructions on screen to complete the installation.

freesat
First Time Installation
WARNING
Make sure that your freesat+ receiver has been connected correctly before continuing the installation
If signal strength is less than 50% please check the dish alignment and connections
Press OK to search for the Network and Transport ID
Signal Strength
100%
Network ID
Transport ID
Search
Quit Menu

We have divided this book into separate sections, so that you can find the information your looking for easier. This section covers the day to day functions that you will use most often.

Choosing a programme

Press the **[GUIDE]** button on the remote control to open the Genre front page.



Use the arrow buttons to select a genre and then press the **[OK]** button.

DON'T FORGET! You can skip the genre page by turning it off in the settings menu. See page 20.

Use the [▲] and [▼] buttons to select different channels. If you want to choose a new genre press the [◀◀] or [▶▶] buttons to select a new genre category.
When you have chosen your programme, press the **[OK]** button to watch it.

Changing the channel

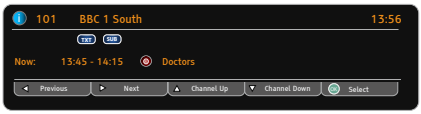
You can also select the channel you want to watch by using the **[P+]** and **[P-]** buttons on the remote control. Alternatively you can use the number buttons to key in the channel number.

When you change the channel the information screen will be displayed for a few seconds.

This shows the details of the programme currently showing and the next programme.

The information bar

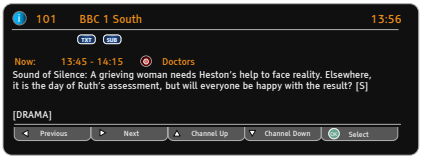
If you want to see information about the programme you are watching, you can press the **[i]** button.



Use the [▲] and [▼] buttons to select different channels, and the [◀] and [▶] buttons to view the now and next programmes.

DON'T FORGET! If you want to record a programme, you can press the **[R]** button.

If you want to see more information press the **[i]** button again.


101 BBC 1 South 13:56
Now: 13:45 - 14:15 Doctors
Sound of Silence: A grieving woman needs Heston's help to face reality. Elsewhere, it is the day of Ruth's assessment, but will everyone be happy with the result? [S]
[DRAMA]
Previous
Next
Channel Up
Channel Down
Select

Changing the volume

You can change the volume using the **[VOL+]** and **[VOL-]** buttons on the remote control. You can turn off the volume pressing the **[MUTE]** button. To turn it back on press the **[MUTE]** button again.

Audio description

Audio description is an additional narration that describes all significant visual information such as body language, facial expression, scenery, costumes - anything that is important to the plot of the story, event or image.

Press the **[AD]** button to toggle this setting on and off.

Audio channel

Sometimes different audio languages are available with certain programmes or channels.

Press the **[AUDIO]** button to see the available languages.

Use the [▲] and [▼] buttons to select a different audio channel. Press the **[OK]** button to confirm the setting.

DON'T FORGET! Audio description has 'AD' next to the language. Not all programmes have audio description or additional audio channels available.

Subtitles

Press the **[SUB]** button to toggle the subtitles on and off.

DON'T FORGET! Not all programmes have subtitles. You can use the information bar to see if the blue 'SUB' icon is shown.

Pausing live TV

This function is sometimes referred to as time shifting, and is very useful if your watching a programme and the phone rings.

DON'T FORGET! You can rewind a programme that you are watching at any time by pressing the [◀◀] button.

To pause live TV, press the **[▶❚❚]** button on the remote control.

The time counter will start, and shows the amount of time that the programme has been paused. The pause button on the Digital TV Recorder will flash.

To continue watching TV, press the **[▶❚❚]** button again and the programme will begin again from where you left off. The play button on the Digital TV Recorder will light up and the pause button will continue to flash.

You can fast forward, and fast rewind using the [◀◀] and [▶▶] buttons. The speed and direction are shown on the screen. To change the speed press the [◀◀] and [▶▶] buttons again.

To stop time shifting mode and go back to live TV, press the **[■]** button. The play button light will turn off.

The guide window

Navigation

You can open the guide window by pressing the **[GUIDE]** button on the remote control. The guide shows you all of the programmes and channels available for the next 8 days.

Use the [▲] and [▼] buttons to select different channels. You can use the **[P+]** and **[P-]** buttons to move a page at a time.

The **[RED]** button will move backwards 2 hours, the **[GREEN]** button will move forwards 2 hours, the **[YELLOW]** button will move backwards 24 hours and the **[BLUE]** button will move forwards 24 hours.

If you want to choose a new genre press the [◀◀] or [▶▶] buttons to select a new genre category.

When you have chosen your programme, press the **[OK]** button to watch it.

Guide icons

AD	This programme has audio description.
DD	This programme is broadcast with Dolby Digital.
DOLBY DIGITAL PLUS	This programme is broadcast with Dolby Digital Plus.
G	This programme contains guidance information.
HD	This programme is broadcast in high definition.
®	This programme is scheduled to be recorded.
	This programme has been set as a reminder.
SPLIT	This is a split event programme. (In two parts).
SUB	This programme has subtitles.
TXT	This programme had digital text available.

Setting a reminder

You can use the reminder function to let you know when a programme is going to start.

Use the [▲], [▼], [◀] and [▶] buttons to select a programme.

Press the **[OK]** button to set the reminder. When the reminder has been set a clock icon is shown before the programme name.

If you want to choose a new genre press the [◀◀] or [▶▶] buttons to select a new genre category.

DON'T FORGET! To cancel a programme reminder, highlight the programme where the reminder has been set, and press the **[OK]** button. The clock icon will disappear and the reminder will be cancelled.

Setting a recording

You can record two programmes at the same time using this Digital TV Recorder.

Select a programme that you want to record and then press the **[R]** button to set the recording. When a recording has been set the record icon is shown before the programme name.

When the Digital TV Recorder starts to record, the 'REC' button on the front of the Digital TV Recorder will light up red.

DON'T FORGET! You can change channel and watch another programme or recording when the Digital TV Recorder is recording.

Recording clashes

If you try to record more than two programmes at the same time, you will see a warning screen with a list of options for you to choose. An example screen is shown below;

WARNING
Recording Clash
Your freesat DTR is already recording two different channels.
What would you like to do?
Cancel Recording 'Watch My Chops' on CBBC
Stop Recording 'In the Night Garden' on BBC HD
Stop Recording 'Horrid Henry' on CITV
Select
Exit Menu

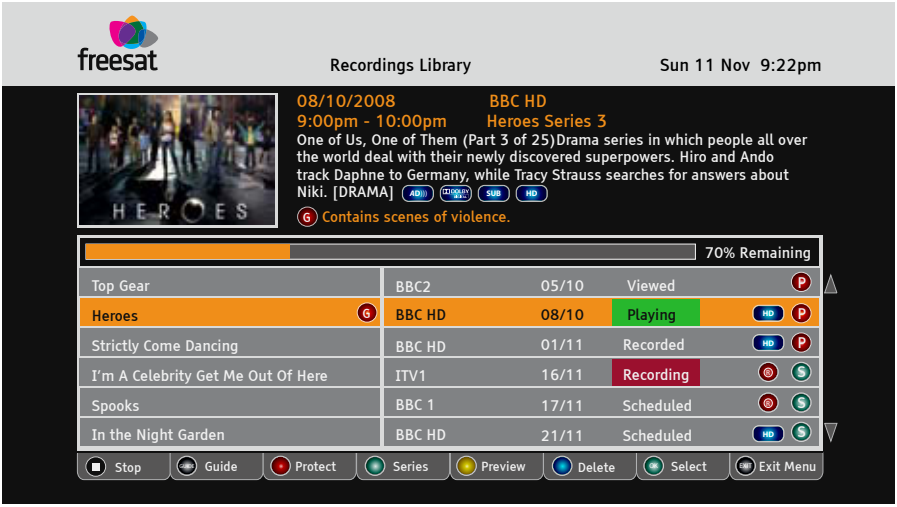
DON'T FORGET! The list of options available will depend on the programmes being recorded.

You will be able to cancel recordings, stop recordings or even schedule the recording for a different time if the programme is being broadcast again at a later time or date.

Use the [▲] and, [▼], buttons to select an option.

Press the **[OK]** button to confirm.

The library window


freesat
Recordings Library
Sun 11 Nov 9:22pm
08/10/2008 BBC HD
9:00pm - 10:00pm Heroes Series 3
One of Us, One of Them (Part 3 of 25)Drama series in which people all over the world deal with their newly discovered superpowers. Hiro and Ando track Daphne to Germany, while Tracy Strauss searches for answers about Niki. [DRAMA]
Contains scenes of violence.
70% Remaining
Top Gear BBC2 05/10 Viewed
Heroes BBC HD 08/10 Playing
Strictly Come Dancing BBC HD 01/11 Recorded
I'm A Celebrity Get Me Out Of Here ITV1 16/11 Recording
Spooks BBC 1 17/11 Scheduled
In the Night Garden BBC HD 21/11 Scheduled
Stop
Guide
Protect
Series
Preview
Delete
Select
Exit Menu

Navigation

You can open the recordings library window by pressing the **[LIB]** button on the remote control. This shows you all of your recorded and scheduled recordings.

Use the [▲] and [▼] buttons to select each programme. You can use the **[P+]** and **[P-]** buttons to move a page at a time.

Library icons

AD	This recording has audio description.
DD	This recording has Dolby Digital.
DOLBY DIGITAL PLUS	This recording has Dolby Digital Plus.
G	This recording contains guidance information.
HD	This recording is in high definition.

R	This programme is scheduled to be recorded.
SPLIT	This is a split event recording. (In two parts).
SUB	This recording has subtitles.
P	This recording is protected and will not be deleted.
S	This recording is part of a series.
■	Stops a recording or a preview.
	This will protect or unprotect a recording.
	Adds or removes a series link from a scheduled recording.
	This will preview a recorded programme.
	This will delete recorded and scheduled programmes.

Watching a recording

Programmes that have finished recording are marked as 'Recorded'.

Use the [▲], [▼], buttons to select a programme that you want to watch.

Press the **[OK]** button to start playback.

DON'T FORGET! You can start to watch back a programme that is recording and don't have to wait for it to finish.

Previewing a recording

You can preview a recorded programme in the preview window in the recordings library. The status will show as 'Playing'.

Series Link

A series link will record all programmes in a series. For example if you set it to record Eastenders on a Monday and series link was set, then each new episode of Eastenders will be recorded automatically.

To set a series link, choose the programme to be recorded in the guide and press the record button **[R]**.

Press the **[LIB]** button and choose the scheduled programme using the [▲], [▼], buttons.

Press the **[GREEN]** button to set series link.

DON'T FORGET! Not all programmes are part of a series.

Protecting a recording

You can protect a recording from being accidentally deleted by protecting it.

Use the [▲], [▼], buttons to select a recording that you want to protect.

Press the **[RED]** button to protect.

DON'T FORGET! Your recording will not be overwritten or deleted when protected.

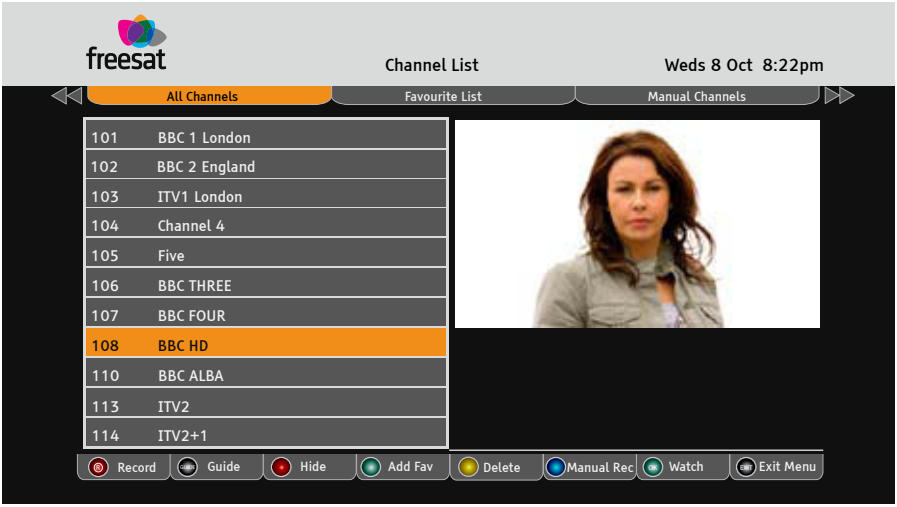
To unprotect a recording, highlight the protected recording using the [▲], [▼], buttons and then press the **[RED]** button.

Deleting a recording

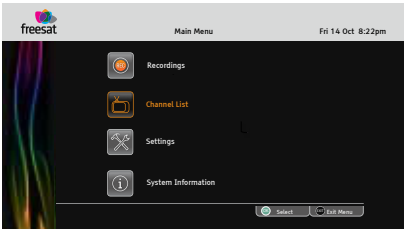
Use the [▲], [▼], buttons to select a recording that you want to delete. Press the **[BLUE]** button to delete.

DON'T FORGET! To delete a protected recording, you need to unprotect it first. See the section above about 'Protecting a recording'.

The channel List



You can open the channel list window by pressing the **[CH LIST]** button on the remote control or from the main menu.



This channel list allows you to hide, and delete channels, setup a favourites channel list, setup a manual recording and view the list of free to air channels that you have added.

DON'T FORGET! See page 23 for further information on how to add free to air channels.

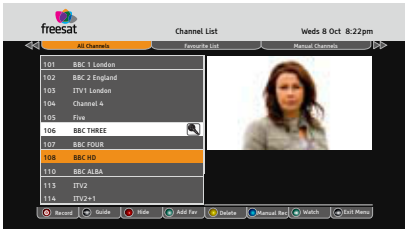
Use the [◀◀] or [▶▶] buttons to switch between 'All Channels', 'Favourite List' and 'Manual Channels'.

Channel list icons

	Record the current programme you are watching.
	Opens the Guide window.
	This will hide the channel from the Guide window.
	Adds the channel to your favourite list.
	This will permanently delete the current channel.
	This will open the manual record window.
	This channel has been hidden from the Guide window.

Hiding a channel

Use the [▲] and [▼] buttons to select the channel that you want to hide. Press the [**RED**] button to hide it.



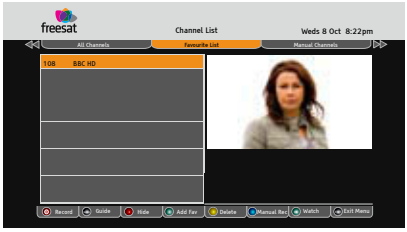
When a channel is hidden, a magnifying glass icon will be shown.
To unlock a channel, select the hidden channel using the [▲] and [▼] buttons. Press the [**RED**] button to unhide it.

DON'T FORGET! Hidden channels will not be shown in the EPG window.

Favourites

The favourites function lets you keep your favourite channels in a separate list.

Use the [▲] and [▼] buttons to select a channel. Press the [**GREEN**] button to add it to the favourite list.



To add additional channels to your favourites list press the [◀◀] button and select a new channel.

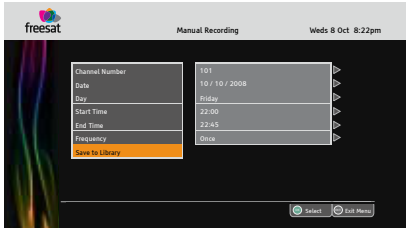
Deleting a channel

Use the [▲] and [▼] buttons to select a channel that you want to delete. Press the [**YELLOW**] button to delete it.

DON'T FORGET! It is not possible to un-delete a channel. You will have to do a First Time Install again. See page 20.

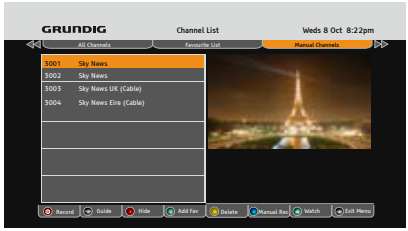
Manual Recording

The manual recording feature lets you set-up when you want a recording to start and stop manually. Press the [**BLUE**] button to access the manual recording window.



Use the [▲], [▼], [◀] and [▶] buttons to change the settings. To add the recording to the library select 'Save to Library' and press the **[OK]** button.

Manual Channels

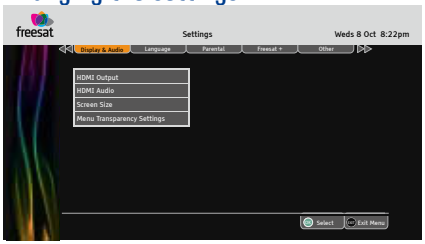


The manual channel tab shows you your non-freesat channels. See page 23 for further information.

The settings menu

To open the settings press the **[MENU]** button on the remote control and then select 'Settings'. Press the **[OK]** button to confirm.

Changing the settings



Use the [▲] and [▼] buttons to select each option.

If you want to change the setting press the [◀] or [▶] buttons. Press the **[OK]** button to save the setting.

If you want to view a different settings category press the [◀◀] or [▶▶] buttons.

To close any of the settings screens, press the **[EXIT]** button.

Display and audio

HDMI Output - You can change this setting to best match your HD Ready TV. You can choose between 576p, 720p, and 1080i.

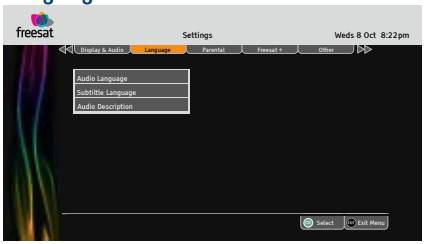
HDMI Audio - If your Digital TV Recorder is connected to your surround sound system using HDMI, choose the 'Dolby Digital' setting. If your Digital TV Recorder is connected to your surround sound system using the SPDIF or OPTICAL connections use the 'Stereo Downmix' setting.

Screen Size - You will have already set this up as part of the installation process, but you can change the format of the screen size here without having to setup your Digital TV Recorder again. You can choose between 16:9 widescreen, 4:3 widescreen, 4:3 centre cut out, and 4:3 letter box.

DON'T FORGET! Not all programmes are broadcast in widescreen format which may result in a black border around the programme. This setting can be useful to remove or minimise the border.

Menu Transparency - This setting allows you to adjust how see through the menus are. By adjusting the setting you will be able to see the programme behind the on screen menu. The default setting is off.

Language



Audio Language - This setting is your preferred default audio language. The options are English, Welsh, Gaelic, and Irish Gaelic.

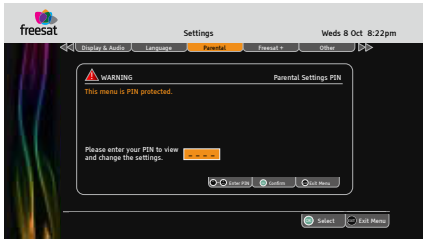
Subtitle Language - This setting is your preferred default subtitle language. The options are English, Welsh, Gaelic, and Irish Gaelic.

DON'T FORGET! Not all programmes have these languages available. If you preferred setting is not available, English language will be used instead.

Audio description - This is an additional narration that describes all significant visual information such as body language, facial expression, scenery, costumes - anything that is important to the plot of the story, event or image. You can turn on and off audio description here.

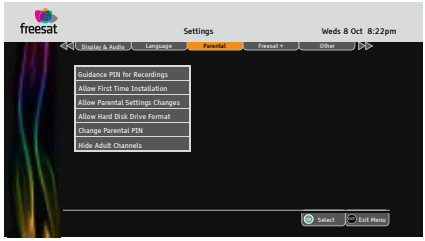
DON'T FORGET! You can toggle audio description on and off by pressing the **[AD]** button on the remote control.

Parental



When the Parental menu is selected, you need to enter your PIN to see the settings.

DON'T FORGET! The default PIN is **0000**. You can change the PIN in the parental settings.



Guidance PIN for Recordings - This setting chooses if you want to enter a PIN before watching a recording that has guidance information. The default setting is Yes.

DON'T FORGET! For further information about guidance see page 22.

Allow First Time Installation - This setting chooses if you want to allow a first time installation.

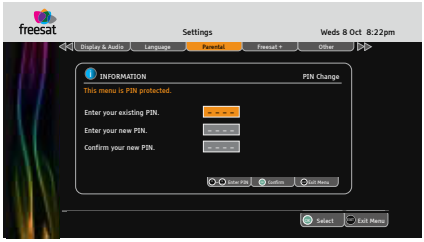
DON'T FORGET! A first time installation will remove all non freesat channels and revert the Parental PIN to 0000. Scheduled recordings, and the library contents are not affected.

Allow Parental Settings Changes - This setting chooses if you want to allow access to the parental menu without entering a PIN. The default setting is that you must enter a PIN.

Allow Hard Disk Drive Format - This setting chooses if you want to allow the hard disk drive to be formatted.

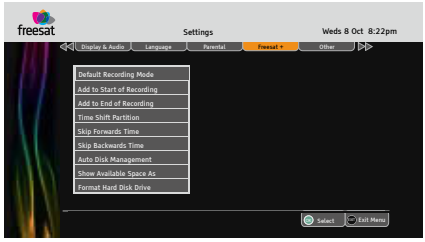
Change Parental PIN - This setting allows you to change the Parental PIN.

Hide Adult Genre - This setting chooses if you want to allow access to channels in the Adult genre category. The default setting is that adult channels are displayed in the channel list and programme guide.



DON'T FORGET! The default Parental PIN is 0000. If you have changed the default PIN and can't remember it, please contact the help line for assistance.

Freesat +



Default Recording Mode - This setting chooses the default recording mode. You can set the HD Digital TV Recorder to always record in high definition or standard definition.

DON'T FORGET! You can only record in high definition when the programme is being broadcast in high definition.

Add to Start of Recording - This changes the amount of time that is added before a recording starts.

Add to End of Recording - This changes the amount of time that is added at the end of a recording.

Add to Start of Recording - This changes the amount of time that is added before a recording starts.

Time shift Partition - This sets the amount of time that is used for background recording of live TV. The options are 60 minutes or 120 minutes.

Skip Forwards Time - This sets the default skip forwards time.

Skip Backwards Time - This sets the default skip backwards time.

DON'T FORGET! You can use the skip forwards and backwards function when watching a recording by pressing the [◀] or [▶] buttons.

Auto Disk Management - This will allow the oldest recordings that have been viewed to be over written if the Digital TV Recorder is short of space.

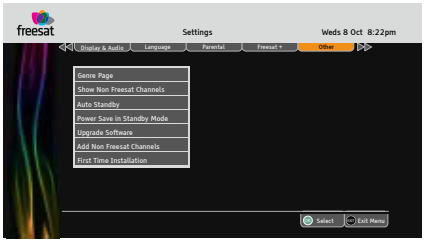
DON'T FORGET! If you don't want a programme to be overwritten you can protect it.

Show Available Space As - This sets how you want remaining space to be shown in the menus. You can choose from the percentage of space, hours of standard definition, or hours of high definition available.

Format Hard Disk Drive - This will reformat your hard disk drive.

DON'T FORGET! This will permanently delete all of your recorded programmes, even if they are protected.

Other



Genre Page - This setting allows you to turn on or off the genre selection page. When you press [**GUIDE**] when the genre page is turned off, the programme guide will be shown straight away. The default setting is that the genre page is shown.

Show Non Freesat Channels - This setting allows you to see the manually added free to air channels in the channel list.

DON'T FORGET! The default setting is not to show manually added free to air channels. Free to Air channels are not added to the programme guide.

Auto Standby - This will put the Digital TV Recorder into standby if there has been no user activity for four hours. A thirty second countdown is shown on screen, to give the user the option to cancel the Digital TV Recorder going into standby.

Power Save in Standby Mode - This setting reduces the amount of energy used when in standby mode.

Upgrade software - This setting allows the HD Digital TV Recorder to search for new software.

Add Non Freesat Channels - See page 23 for further instructions.

First Time Installation - This setting allows you to perform a first time installation. Follow the instructions on-screen to setup your HD Digital TV Recorder.

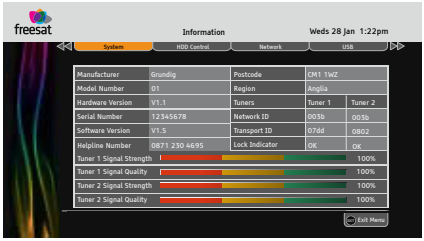
DON'T FORGET! A first time installation will remove all non freesat channels, and default your Parental PIN to 0000.

System information

To open the system information window press the **[MENU]** button on the remote control and then select 'System Information'.

Press the **[OK]** button to confirm.

DON'T FORGET! It is useful to have access to the system information screen when contacting the call centre



If you want to view a different information category press the [◀◀] or [▶▶] buttons.

To close any of the settings screens, press the **[EXIT]** button.

What is guidance?

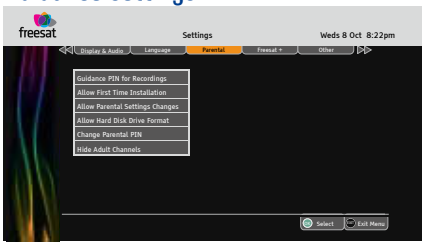
Guidance is a parental lock which gives you control against the types of programmes that can be watched and played back on your HD Digital TV Recorder.

Programmes that contain guidance information are marked with a G .

Guidance labels let you know when a programme may include content that is unsuitable for young audiences (e.g violence, sex, drug use, or strong language) or when it may be harmful to view (e.g. contains flashing images).

DON'T FORGET! Guidance is usually used for television programmes broadcast after 9pm.

Guidance settings



You can choose wether to PIN protect your programmes and recordings in the Parental settings menu.

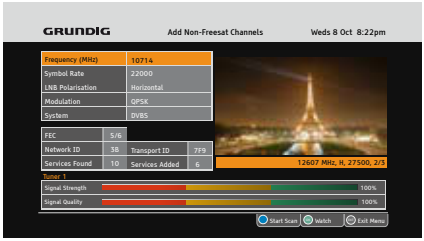
DON'T FORGET! If you have forgotten your guidance PIN, please contact the call centre on 0871 230 4695 for assistance.

Non-freesat channels

You can manually tune in any free to air channels on your HD Digital TV Recorder, if you have the frequency in MHz, the symbol rate and the LNB polarisation.

DON'T FORGET! Adding free to air channels will not affect the stored freesat channels. Details of channel frequencies are generally available online, and are subject to change.

Open 'Add Non-freesat Channels' from the settings menu.



Use the [▲] and [▼] buttons to select each option.

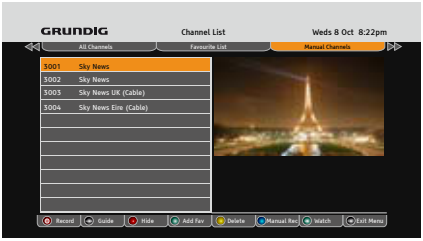
If you want to change the setting press the [◀] or [▶] buttons, or key in the setting using the number buttons.

Press the **[BLUE]** button to search for additional channels.

Once the search is complete, any new channels will be available from the channel list.

DON'T FORGET! To view non-freesat channels, you must select 'yes' in the 'Show Non Freesat Channels' setting. Non-freesat channels are only available from the Channel List and are not shown in the Programme Guide.

To view the non-freesat channels press the [**CH LIST**] button, and press the [◀◀] or [▶▶] buttons to highlight Manual Channels.



Use the [▲] and [▼] buttons to select a channel and press the [**OK**] button to watch it.

Frequently asked questions	What you can do
In which direction should my satellite dish be positioned?	Your satellite dish should be fitted on a south facing wall in the direction of 28.2 ° east of south.
Can I connect more than one digital box to my satellite dish?	Yes you can. You will need an LNB (the box on your satellite dish) fitted that has more than one connection. You will need two connections for this Digital TV Recorder, so that you can record two programmes at the same time.
Can I connect this Digital TV Recorder to my normal roof aerial?	No. This box must be connected to a satellite dish for it to work.
The Digital TV Recorder will not switch on. What should I do?	Check the mains power cable and make sure it is plugged into a suitable power outlet. Check that the mains supply is switched On. Connect the power cable to a different power outlet.
My Digital TV Recorder can't find the 'Network ID' and 'Transport ID' what should I do?	Make sure that your satellite dish is positioned correctly, and check the cables and connections again.
Why do I have to enter my postcode in the first time set-up?	This makes sure that you receive programmes for your local region.
How do I enter a space when entering the postcode?	Your Digital TV Recorder will automatically enter the space for you. Enter your full postcode using the number buttons and then press the 'OK' button.
How do I do a first-time installation again?	You can do a first-time installation again using the settings menu. See page 20 for more information.
I'm not getting a picture on the TV. What should I do?	• Make sure that the Digital TV Recorder is On. (Press the 'STANDBY' button.) • Make sure that the HDMI or SCART cable is firmly connected to the TV. • Check the brightness level of the TV.
Can I receive high-definition programmes with this Digital TV Recorder?	Yes. You can record and receive high-definition programmes with your Digital TV Recorder.
Can I change the audio language for the programme I am watching?	Yes. Some channels broadcast other audio languages. Press the [AUDIO] button when you are watching a programme to see if other languages are available.
Do I have to retune my Digital TV Recorder when digital switchover happens in my region?	No. All freesat receivers do not have to be retuned as it receives its signal from a satellite and not an aerial.

Frequently asked questions	What you can do
Do I have to retune my Digital TV Recorder when new channels are added?	No. Your Digital TV Recorder will automatically add new channels for you, and display them in the programme guide and channel list.
Can I use 'red button' interactive services with this Digital TV Recorder?	Yes. Some channels offer interactive services such as news, sport and weather. When interactive services are available, a red dot will appear in the top right-hand side of the screen. Simply press the red button on your remote control to access them.
Can I add 'FTA (Free To Air)' channels to my Digital TV Recorder?	Yes. You can add these using the 'Add Non-Freesat Channels' menu. See page 23 for more information.
I have been asked to enter a lock code. What is it?	Your default code is 0000. You can change this to something else in 'Parental Settings'.
Why can't I see my FTA channels?	Free to Air channels are not shown in the TV programme guide. Make sure that 'Show Non-Freesat Channels' is set to 'yes'. Press the 'CH LIST' to see them.
How can I find out system information about my Digital TV Recorder?	Press the 'MENU' button and select 'System Information'.
My picture and sound quality is poor. What should I do?	• Make sure there are no mobile phones, DECT phones, wireless routers or microwave ovens near the receiver. • Keep the power and the satellite cable apart from each other. • Check the signal levels using the system information screen. The signal level may be affected by weather conditions. If the LNB is covered with snow or there is heavy rain, the sound and picture quality may be poor temporarily.
Can I use my freesat+ recorder with only one LNB connection?	It is possible, but you will only be able to record the programme you are watching and will not be able to use the full features of your freesat+ recorder.
Can I record programmes in high definition?	Yes you can. Look for the blue HD logo in the guide to show you which programmes are available in high definition.

Help and advice

Frequently asked questions	What you can do
How many programmes can I record on my freesat+ recorder?	There isn't a limit on the amount of programmes, but you can record a maximum of either 80 hours of HD or 200 hours of SD with a 320GB hard disk drive or 125 hours of HD or 312 hours of SD with a 500GB hard drive.
Can I record one programme whilst watching another?	Yes you can, but you will need two cables from the satellite dish connected to your freesat+ recorder.
Can I record an entire series?	Yes you can. Set the first programme to record, then set the series link option in the library.
Do I have to set both parts to record if for example the programme I want to record has the news in the middle of it.	This is known as a split recording. Your freesat+ recorder will automatically record both parts if the first part is set to record.
Can I pause live TV?	Yes you can pause live TV for up to 2 hours by pressing the pause button on your remote control.
Can I rewind live TV?	Yes. Your freesat+ recorder automatically records the channel you are watching in the background so that you can rewind live TV. As soon as you change channel the recording restarts again from the beginning.

Need extra information or help setting up?

You may find the information you are looking for on our web site.

www.grundigdigital.co.uk

or on the freesat website

www.freesat.co.uk

If you still need help or information you can phone our call centre on:

0871 230 4695
Calls are charged at 10p per minute when called from a BT land line. Call charges may vary if using other networks.

General Safety

This equipment has been designed and manufactured to meet European safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read these operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made in accordance with the manufacturer's instructions.

Switch off and remove the mains plug when making or changing any connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Don't continue to operate the equipment if you are ever in doubt about it working normally, or if it is damaged in any way. Switch it off withdraw the plug from the mains and consult your dealer.

Don't remove any fixed covers as this may expose you to dangerous voltages.

Don't leave the equipment switched On when it is unattended for long periods of time, unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Make sure that other people in your household are conversant with the equipment.

Don't obstruct the ventilation vents on the equipment, for example with curtains or soft furnishings.

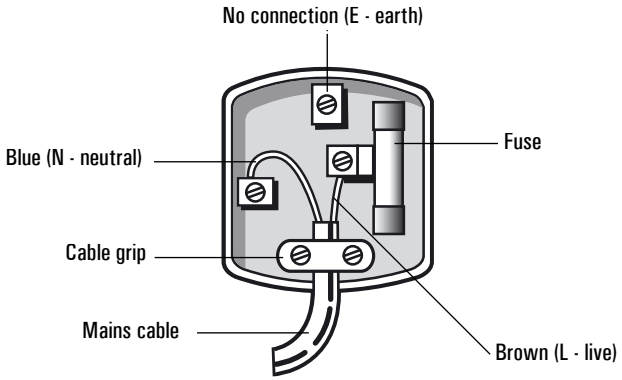
Overheating will cause damage and shorten the life of the product.

Don't allow electrical equipment to be exposed to rain or moisture.

Electrical safety

Make sure your electricity supply is the same voltage as the voltage printed on the label on the back of the main unit of your receiver.
The receiver needs a 230-volt (V) 50-hertz (Hz) mains supply. Do not use any other supply. The receiver comes with a fitted plug. If the plug breaks, you cannot reuse the plug. If you need to change the fuse in a moulded plug you must refit the fuse cover. If you lose or damage the fuse cover, you must not use the plug until you have a replacement plug cover or plug.

If you have to change the plug because it is not suitable for your socket, or it is damaged, you should remove it and fit the right plug using the wiring diagram below. You must throw the plug away safely. You could get an electric shock if you use it again.



The colours of the wires in the receiver's power lead may not match the coloured markings in your plug, so you should follow these instructions.

You must connect the blue wire to the terminal marked with the letter 'N' or which is coloured black.

You must connect the brown wire to the terminal marked with the letter 'L' or which is coloured red.

You should not connect anything to the earth terminal of the plug marked with the letter 'E' or which is coloured green.

You must always use the same fuse value as your receiver's power-lead plug if you replace it.

Technical Specification

General Information:		
Model Number	GUFSDTR320HD	GUFSDTR500HD
Hard Drive Capacity	320 Gbytes	500 Gbytes
Number of Tuners	Twin DVB S2	Twin DVB S2
Recording Time	80 hours high definition / 200 hours standard definition	125 hours high definition / 312 hours standard definition

Features:

Access all freesat digital channels and radio stations.

Upscaling of standard definition TV when using the HDMI connection.

8 Day Electronic programme guide.

Live pause and rewind.

Series and split programme recording.

Audio description capable (broadcast mix).

Digital Text (MHEG5).

Ethernet port for connection to internet services.

Twin Scart.

HDMI connection.

Power Information:	
Input Voltage	230-volt (V) 50-hertz (Hz) mains supply.
Max Power Rating LVD (Safety Approval)	MAX. 60W
Max Power Rating EUP (Normal Operation)	Max. 22W

Guarantee

The Digital TV Recorder is guaranteed for twelve months from the date of original purchase. If any defect due to faulty materials or workmanship, contact the Grundig Helpline. Have your receipt of purchase available for reference.

The guarantee is subject to the following provisions:

- It is only valid within the boundaries of the country of purchase.
- The product must be correctly installed and operated in accordance with the instructions contained in this instruction manual.
- The Digital TV Recorder must be used solely for domestic purposes.
- The guarantee will be rendered invalid if the Digital TV Recorder is re-sold or has been damaged by inexpert repair.
- The manufacturer disclaims any liability for incidental or consequential damages.
- The guarantee is in addition to, and does not diminish, your statutory or legal rights.

GRUNDIG

freesat+
HD digital TV recorder

Installation Information

TV		Postcode	
Radio		Guidance PIN	

Revision1_20/0709